



Chlamydophila pneumoniae

53592™

Product Sheet

Description

Chlamydophila pneumoniae strain AR-39 was isolated from the throat of an infected human with acute pharyngitis in Seattle, Washington. This bacterial strain is propagated in HEp-2 cells (ATCC CCL-23) and has applications in respiratory disease research.

Strain designation: AR-39

Deposited As: *Chlamydia pneumoniae*

Type strain: No

Patent depository: This material was deposited with the ATCC Patent Depository to fulfill U.S. or international patent requirements. This material may not have been produced or characterized by ATCC. As an International Depository Authority (IDA) for patent deposits, ATCC is required to complete viability testing only at time of initial deposit of patent material. Patent deposits are made available on behalf of the Depositor when the pertinent U.S. or international patent is issued, but material may not be used to infringe the patent claims.

Patent number:

5,350,673

Technical information: ATCC Technical Services does not have technical information on patent deposits that are not produced or characterized by ATCC. Additional information can be found in the corresponding patent available from the patent holder or with the U.S. and/or international patent office.

Storage Conditions

Product format: Frozen

Storage conditions: -70°C or colder

Intended Use

This product is intended for laboratory research use only. It is not intended for any animal or human therapeutic use, any human or animal consumption, or any diagnostic use.

BSL 2

ATCC determines the biosafety level of a material based on our risk assessment as guided by the current edition of *Biosafety in Microbiological and Biomedical Laboratories (BMBL)*, U.S. Department of Health and Human Services. It is your responsibility to understand the hazards associated with the material per your organization's policies and procedures as well as any other applicable regulations as enforced by your local or national agencies.

ATCC highly recommends that appropriate personal protective equipment is always used when handling vials. For cultures that require storage in liquid nitrogen, it is important to note that some vials may leak when submersed in liquid nitrogen and will slowly fill with liquid nitrogen. Upon thawing, the conversion of the liquid nitrogen back to its gas phase may result in the vial exploding or blowing off its cap with dangerous force creating flying debris. Unless necessary, ATCC recommends that these cultures be stored in the vapor phase of liquid nitrogen rather than submersed in liquid nitrogen.

Certificate of Analysis

For batch-specific test results, refer to the applicable certificate of analysis that can be found at www.atcc.org.

Growth Conditions

Host: HEp-2 (ATCC CCL-23)

Effects: CPE; cytoplasmic inclusions

Complete medium:

DMEM (ATCC 30-2002) + 10% prescreened FBS + 10 mM HEPES + 2 µg/mL

Cycloheximide

Temperature: 35°C

Recommendations for infection: Plate cells 16-24 hours prior to infection and infect when cultures are 80-90% confluent. Disrupt cells in the inoculum by sonicating for 20 seconds at approximately 240W or by adding glass beads to the inoculum and vortex mixing. Remove medium and inoculate with disrupted material. Centrifuge at 2,300 - 2,400 x g at 20°C for 1 hour. End adsorption by adding agent growth medium.

Incubation: 3 days

Handling Procedures

Mycoplasma contamination: Not detected

Notes

Activities with high potential for aerosol production require Biosafety Level 3 facilities and practices. The inclusions are iodine stain negative (contain no glycogen). The TWAR strains of *Chlamydia* are named after TW183 and AR39. This material is cited in a U.S. and/or other Patent Application and may not be used to infringe the patent claims.

Key Abbreviations: °C, Degrees Celsius; CO₂, Carbon dioxide; DMEM, Dulbecco's Modified Eagle's Medium; FBS, Fetal bovine serum; HEPES, N-(2-Hydroxyethyl)piperazine-N'-(2-ethanesulfonic acid)

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: *Chlamydophila pneumoniae* (ATCC 53592)

References

References and other information relating to this material are available at www.atcc.org.

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Product Sheet

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